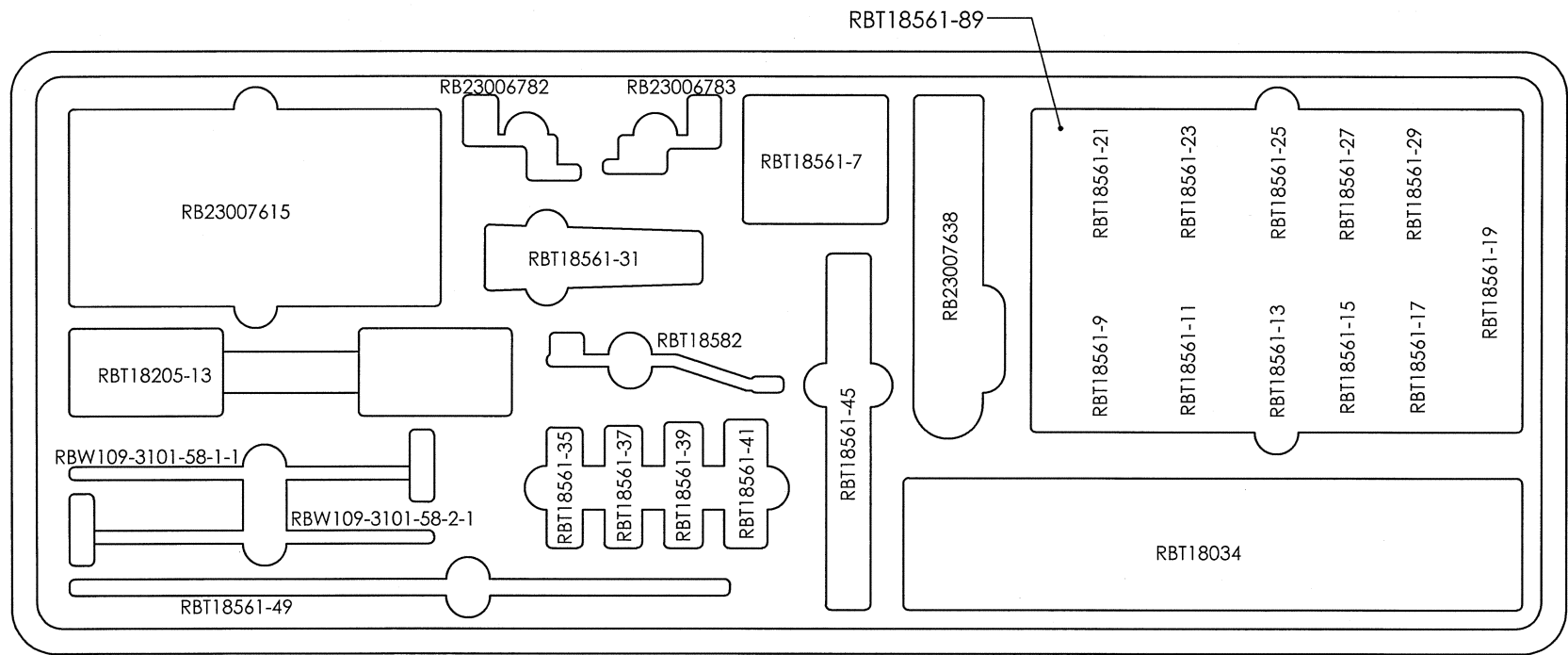
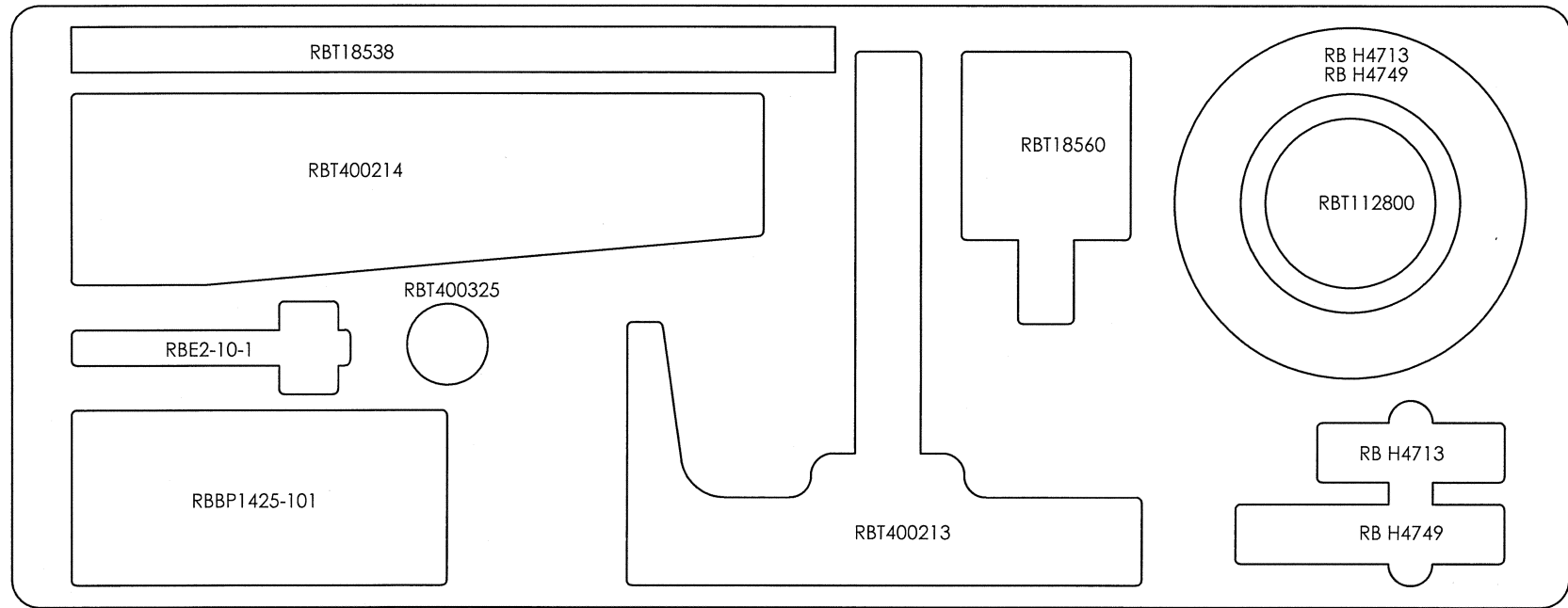


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace



TOP SHELF



BOTTOM CUSHION

TOOL LAYOUT



| REVISIONS | | | | | |
|-----------|---------|--|------------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| A | | CORRECTED -11 B/O P/N FROM 6Y900 TO GY900. | 1/14/2013 | RJC | SE |
| 1 | | CH'D -75 TOOL LAYOUT, ADDED NEW DESIGN FOR DRAIN HOSES & CUTOUTS FOR INDIVIDUAL QUILLS (RB H4713, RB H4749). MOVED RBT112800, CH'D SQUEEZE BOTTLE DEPTHS FROM 2.65 TO 2.35 & 3.43 TO 3.08. | 1/14/2013 | RJC | SE |
| 1A | | -7 CH'D BOM INFO WAS 1/2 DRIVE IS 3/8 DRIVE. -13 NUMBER WAS M6106/32-002 IS M6106/32-001. | 3/8/2013 | BIM | SE |
| 1B | | CORRECTED T/N ON BOTTOM TOOL LAYOUT WAS RBT400235 IS RBT400325. | 1/21/2014 | RJC | RJC |
| 2 | 16-0139 | -75 & -77 CH'D MATERIAL & SUPPLIER WAS Y20 BLACK, I.R. SPECIALTY IS ETHAFOAM 220, BLACK, CASE SOLUTIONS. -75 DELETED RBT18561-59 & RBT18561-61 FROM KIT AND CH'D TOOL LAYOUT, CH'D DIM WAS 4X R.64 IS 3X .65 X 45°. -77 ADDED CUTOUTS FOR RBW109-3101-58-1, RBW109-3101-58-2 AND RBT18034. DELETED -33 AND ADDED -34 AND CH'D CUTOUT FOR NEW SCALE. -79 CH'D DIM WAS 28.44 IS 35.50, ADDED BLACK TO COROPLAST MATERIAL CALLOUT. -81 UPDATED WITH NEW S AND DELETED TOOLS, CH'D PAPER WAS WHITE IS RED. | 9/2/2016 | RJC | JAG |
| 3 | 16-0251 | CORRECTED DWG. TITLE WAS FIELD TOOL KIT IS 407 FIELD MAINTENANCE KIT. CORRECTED T/N WAS RBW109-3101-58-1 IS RBW109-3101-58-1-1, WAS RBW109-3101-58-2 IS RBW109-3101-58-2-1. -31 ADDED B/O INFO (MCMaster-CARR #8485T13). -75, -77, -79, -81 CH'D DWG. TO SHEET METAL TOLERANCE. -75, -77 ADDED DIM 4X R.64. -81 CORRECTED T/N WAS RBW109-3101-58-1 IS RBW109-3101-58-1-1, WAS RBW109-3101-58-2 IS RBW109-3101-58-2-1. | 12/5/2016 | RJC | SM |
| G | | ITEM -45 WAS GRAINER #6AGK7 IS GATES #7401-0076. ADDED SHEET FOR ITEM -45 | 04/06/2019 | KPT | WJ |

ECN 19-757

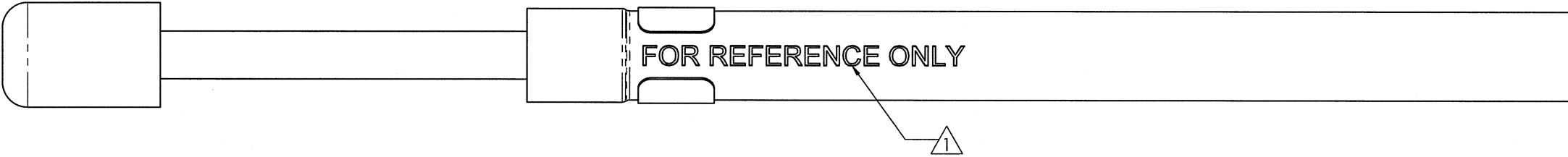
| | |
|--|---|
| DART AEROSPACE | |
| TITLE 407 FIELD MAINTENANCE KIT | |
| DWG NO. RBT18561 | REV G |
| MAT'L HEAT TREAT FINISH SPEC | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 |
| DRAWN BY: KPT | USED ON MODEL |
| CHECKED: KPT | BELL 407 |
| OPPS APPR: | |
| APPROVED: WJ | |
| SCALE NTS | DATE 06/04/2019 SHEET 1 OF 7 |

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace

| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|----------|----------|-----|--------|----------|---|---------------------|---|-----|
| | | | | 1 | POWER TURBINE CLEANING KIT | | RB23007615 | 1 |
| | | | | 1 | LOWER TURBINE ATTACH NUT | | RB23006782 | 1 |
| | | | | 1 | UPPER TURBINE ATTACH NUT | | RB23006783 | 1 |
| | | | | 1 | FUEL NOZZLE REMOVE / INSTALL | | RB23007638 | 1 |
| | | | | 1 | T/R G/B TORQUE ADAPTER | | RBT18582 | 1 |
| | | | | 1 | TRIM TAB BENDING GUAGE | | RBT400214 | 1 |
| | | | | 1 | TRIM TAB BENDER | | RBT400213 | 1 |
| | | | | 1 | TRANS & FREEWHEELING DRAIN TOOL | | RB H4713 | 1 |
| | | | | 1 | T/R GEARBOX DRAIN TOOL | | RB H4749 | 1 |
| | | | | 1 | FUEL BOOST PUMP PULLER | | RBE2-10-1 | 1 |
| | | | | 1 | SOCKET TAIL BOOM NUT | | RBT400325 | 1 |
| | | | | 1 | INPUT DRIVE SHAFT TOOL KIT | | RBBP1425-101 | 1 |
| | | | | 1 | SEAL PULLER; ENGINE/GEARBOX | | RBT18560 | 1 |
| | | | | 1 | PTO SEAL INSTALL TOOL | | RBT112800 | 1 |
| | | | | 1 | HAMMER, STEEL, BLADE CORROSION, & VOIDS DETECTION | | RBW109-3101-58-1-1 | 1 |
| | | | | 1 | HAMMER, ALUM., BLADE CORROSION, & VOIDS DETECTION | | RBW109-3101-58-2-1 | 1 |
| | | | | 1 | CONTROL ROD PROTECTORS | | RBT18034 | 1 |
| | | | | 1 | SEAT FRAME SUPPORTS | | RBT18538 | 1 |
| | | | | 1 | LINEAR SCALE | | RBT18025-13 | 1 |
| | | B/O | -7 | 1 | CROWFOOT | | 1-7/8 X 3/8 DRIVE SNAP-ON #FC60A | 1 |
| | | B/O | -9 | 1 | INSERT TOOL | | CMS TOOLS #91002-1 | 1 |
| | | B/O | -11 | 2 | NEEDLE NOZZLE GREASE GUN | | GRAINGER #GY900 | 1 |
| | | B/O | -13 | 1 | RELAY BASE REMOVAL | | CMS TOOLS #M6106/32-001 | 1 |
| | | B/O | -15 | 2 | EXTRACT TOOL-BLUE | | CMS TOOLS M81969/14-03 | 1 |
| | | B/O | -17 | 2 | EXTRACT TOOL-RED | | CMS TOOLS #M81969/14-02 | 1 |
| | | B/O | -19 | 2 | EXTRACT TOOL-GREEN | | CMS TOOLS #M81969/14-01 | 1 |
| | | B/O | -21 | 1 | EXTRACT TOOL-TERMINAL BLOCK | | CMS TOOLS #M81714/69-01 | 1 |
| | | B/O | -23 | 1 | EXTRACT TOOL-TERMINAL BLOCK | | CMS TOOLS #M81714/69-02 | 1 |
| | | B/O | -25 | 1 | RELAY REMOVAL | | CMS TOOLS #M6106/31-001 | 1 |
| | | B/O | -27 | 2 | POSI-DRIVE BITS-MR BEANIE | | USATCO-TOOL #170-1/4B | 1 |
| | | B/O | -29 | 1 | EXTRACTION TOOL | | CMS TOOLS #1-305183-1 | 1 |
| | | B/O | -31 | 1 | 10X MAGNA-LITE | | COMMERCIAL #10X MG (MCMaster-CARR #8485T13) | 1 |
| | | B/O | -35 | 1 | OFFSET 5/16 TORQUE ADAPTER | | SNAP-ON #FRDH-101 | 1 |
| | | B/O | -37 | 1 | OFFSET 3/8 TORQUE ADAPTER | | SNAP-ON #FRDH-121 | 1 |
| | | B/O | -39 | 1 | OFFSET 1/2 TORQUE ADAPTER | | SNAP-ON #FRDH-161 | 1 |
| | | B/O | -41 | 1 | OFFSET 9/16 TORQUE ADAPTER | | SNAP-ON #FRDH-181 | 1 |
| | | B/O | -45 | 1 | A/C BELT TENSIONER | | GATES #7401-0076 | 1 |
| | | B/O | -49 | 1 | TYGON HOSE | | COMMERCIAL 3/8 I.D. X 15in. | 1 |
| | | B/O | -73 | 1 | CASE | PLASTIC | PELICAN #APP-1700-E | N/S |
| | | | -81 | 1 | CONTENTS & LOCATION CARD | LAMINATED | 1/64 X 6 X 8 | 6 |
| | | B/O | -85 | 2 | OVAL SLEEVE | ALUMINUM | Ø1/16 X 3/8 (MCMaster-CARR #3896T31) | N/S |
| | | B/O | -87 | 1 | LANYARD CABLE | COATED GALV. STEEL | (7X7 CABLE) Ø1/16 X 12in. (CARR-LANE #CL-2-01FT) | N/S |
| | | B/O | -89 | 1 | STORAGE BOX | CLEAR PLASTIC | 1-3/4 X 7-1/4 X 11 (TUFF TAINER FLAMBEAU #4006Zrst) | N/S |
| | | B/O | | 1 | DART PLACARD | ALUMINUM | RB41011 | N/S |
| | | B/O | -75 | 1 | BOTTOM FOAM | ETHAFOAM 220, BLACK | 3 X 13-3/4 X 36 (CASE SOLUTIONS) | |
| | | B/O | -77 | 1 | TOP SHLF FOAM | ETHAFOAM 220, BLACK | 2-1/16 X 13-3/4 X 35-1/2 (CASE SOLUTIONS) | |
| | | B/O | -79 | 1 | STIFFENER | COROPLAST, BLACK | .236 X 13-3/4 X 35-1/2 (CASE SOLUTIONS) | |

| | |
|---|---|
|  | |
| TITLE 407 FIELD MAINTENANCE KIT | |
| DWG NO. RBT18561 | REV G |
| MAT'L HEAT TREAT FINISH | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/ |
| SPEC | 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R |
| DRAWN BY: KPT | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING |
| CHECKED: KPT | 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 |
| OPPS APPR: | USED ON MODEL |
| QA APPR: | BELL 407 |
| APPROVED:  | |
| SCALE NTS | DATE 06/04/2019 SHEET 2 OF 7 |

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace

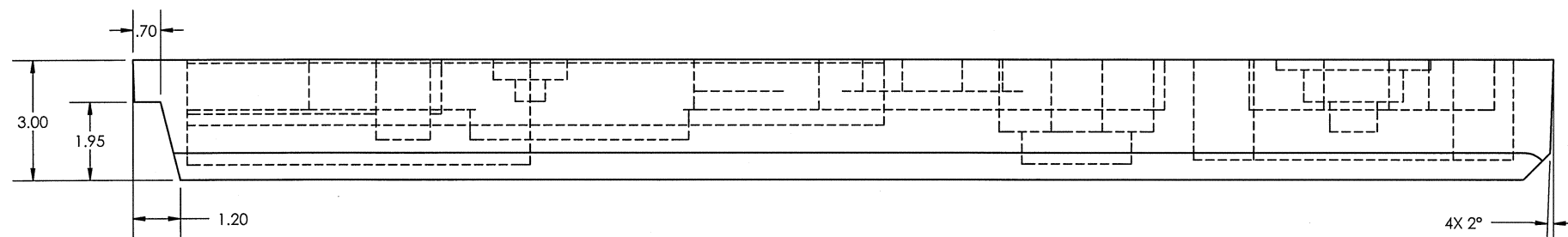
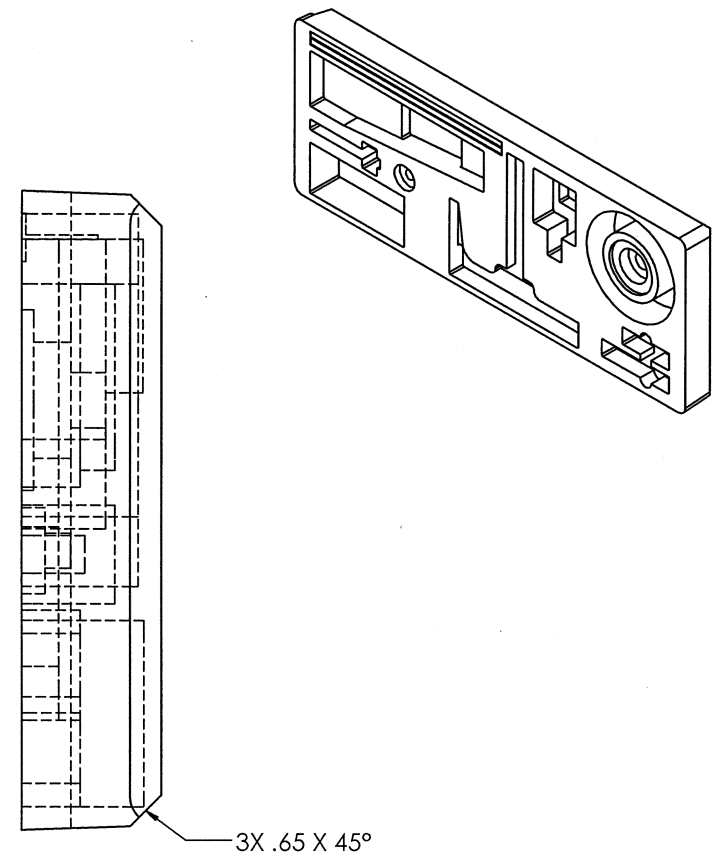
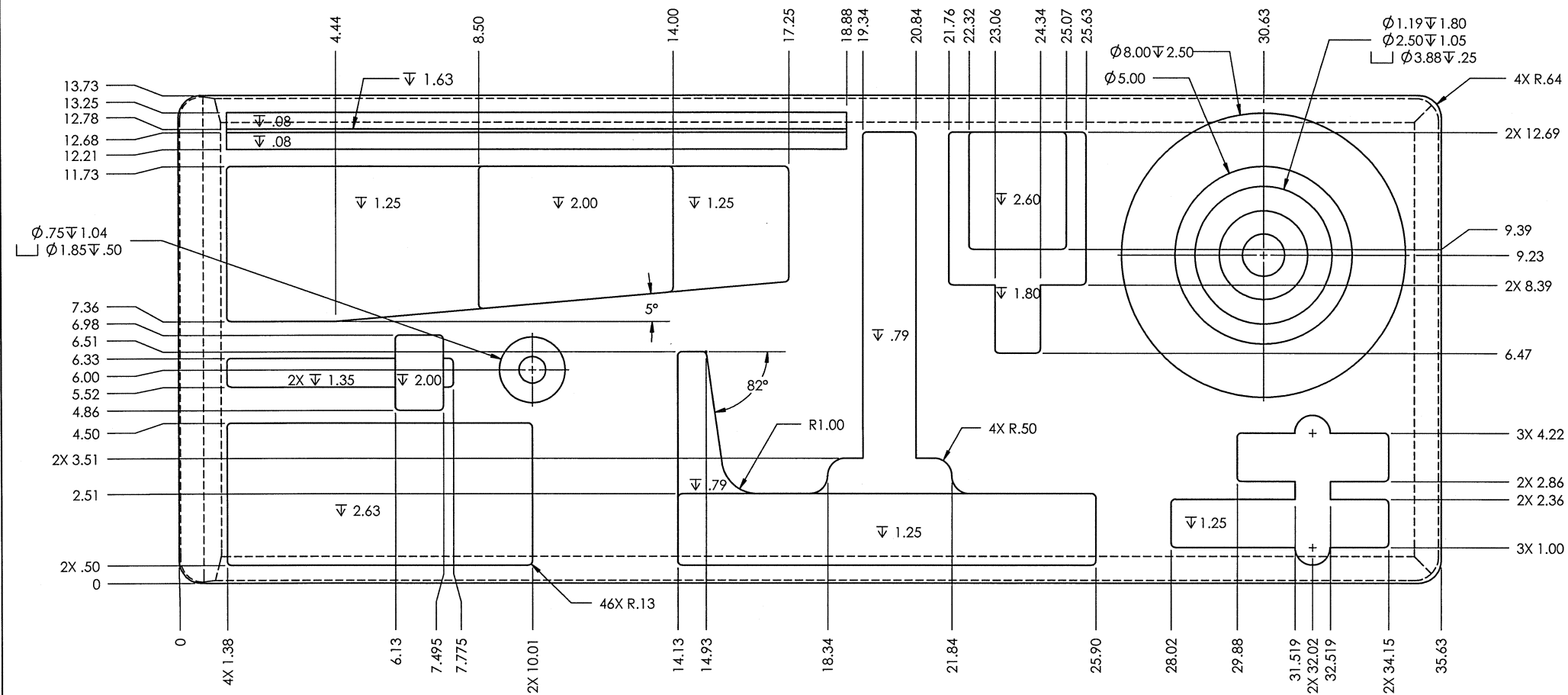


-45
A/C BELT TENSIONER

NOTE:
1 MACHINE ENGRAVE OR DOT MARK, AS SHOWN

| | |
|--|---|
| | |
| TITLE 407 FIELD MAINTENANCE KIT | |
| DWG NO. RBT18561-45 | REV G |
| MAT'L HEAT TREAT FINISH SPEC | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125°✓ 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 |
| DRAWN BY: KPT | USED ON MODEL |
| CHECKED: KPT | BELL 407 |
| OPPS APPR: | |
| APPROVED: | |
| SCALE NTS | DATE 06/04/2019 SHEET 3 OF 7 |

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace



(-75)

BOTTOM CUSHION



TITLE 407 FIELD MAINTENANCE KIT

DWG NO. RBT18561-75

REV
G

| | |
|-------|---------------------|
| MAT'L | ETHAFOAM 220, BLACK |
|-------|---------------------|

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

HEAT
TREAT

DIMENSIONS ARE IN INCHES
 .XXX ± .010 FRACTIONS ± 1/8

| | |
|--------|--|
| FINISH | |
|--------|--|

| | | |
|-----|-------|-----------------|
| .XX | ± .03 | ANGLES ±1° |
| .X | ± .1 | SURFACES = 125/ |

| | |
|---------|------|
| SPEC | |
| REMARKS | DATE |

1. BREAK ALL SHARP EDGES
015 x 45° OR 015R

| | |
|-----------|-----|
| DRAWN BY: | KPT |
| CHECKED: | KPT |


2. DIMENSIONAL LIMITS APPLY AFTER PLATING

| | |
|------------|-----|
| CHECKED: | KPI |
| OPPS APPR: | |

3. INTERPRET DIM AND TOL PER
ASME Y14.5M 2009

| | |
|----------|----|
| QA APPR: | 10 |
|----------|----|

| |
|------------------|
| ASME Y14.5M-2009 |
| USED ON MODEL |

| | |
|-----------|---|
| APPROVED: |  |
|-----------|---|

| | |
|--|----------|
| | BELL 407 |
|--|----------|

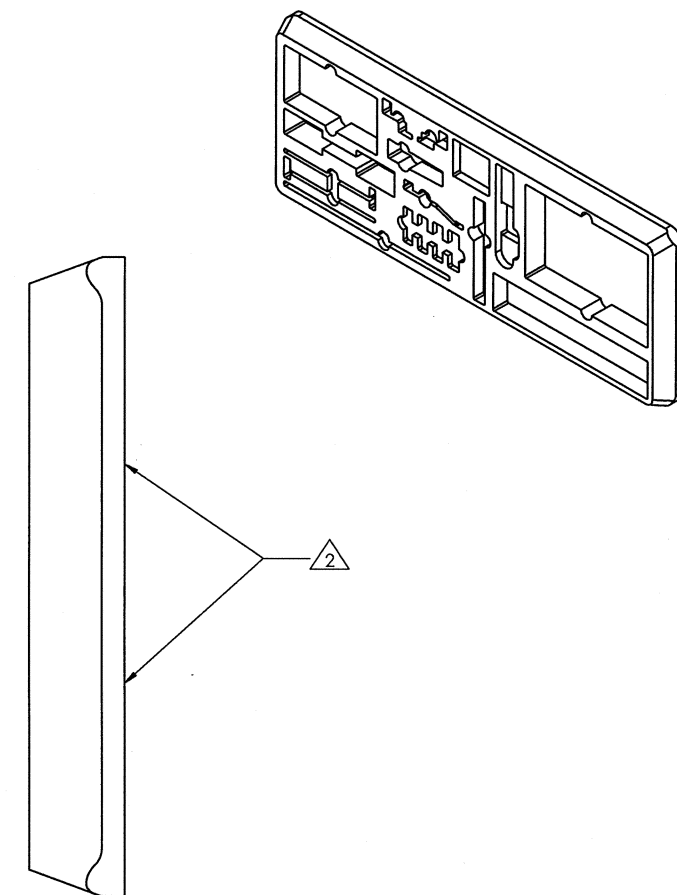
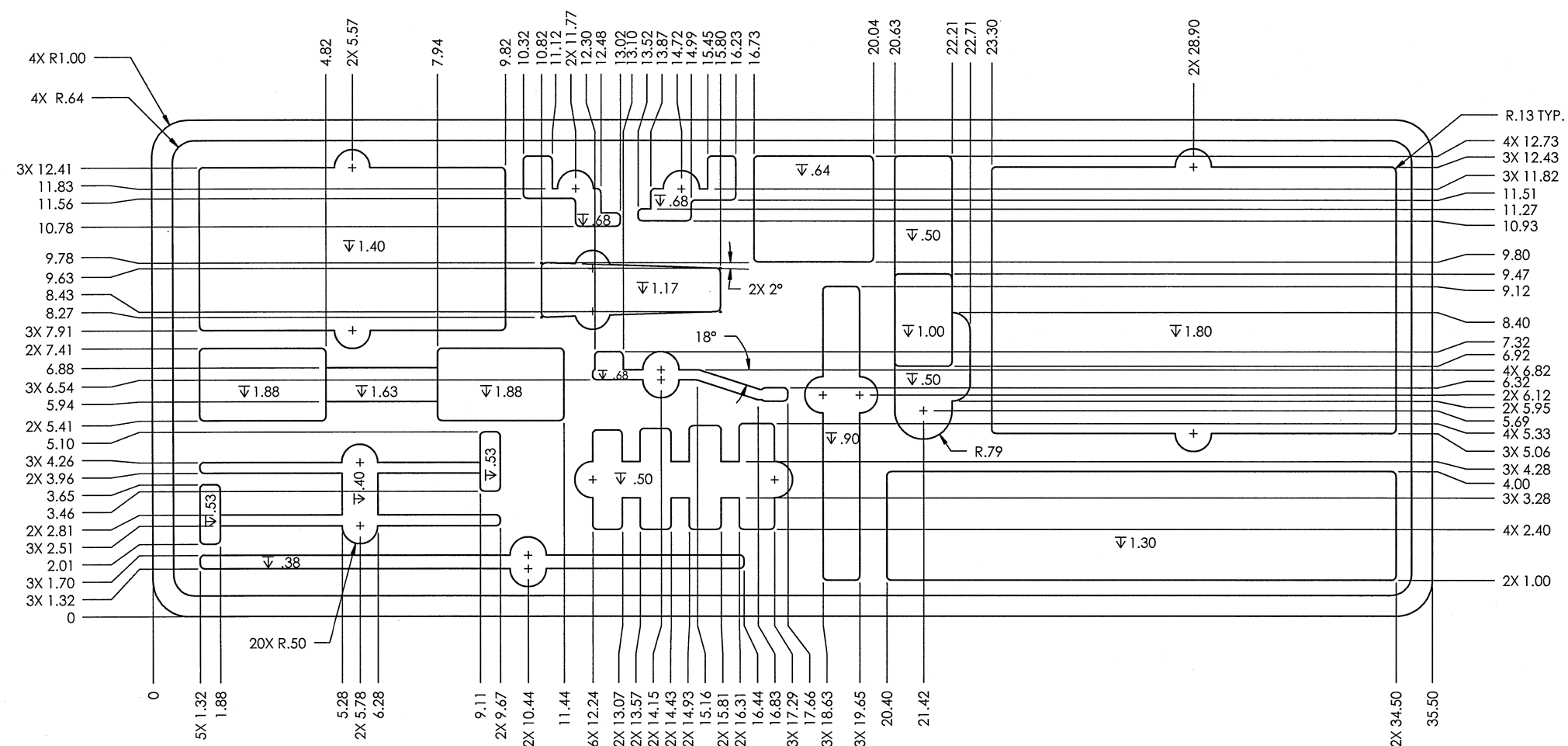
| | | |
|-------|-----|------|
| SCALE | NTS | DATE |
|-------|-----|------|

| | |
|---------|--------------|
| 04/2019 | SHEET 4 OF 7 |
|---------|--------------|

| | | |
|--|-----|--|
| | 110 | |
|--|-----|--|

| | |
|-----------|-------------|
| 10/1/2017 | STREET 1017 |
|-----------|-------------|

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace



NOTE:

1. SOME HIDDEN LINES REMOVED FOR CLARITY.
2. VENDOR TO ATTACH A 1in. WIDE BLACK RIBBON LIFTING HANDLE TO EACH END OF COROPLAST, LOOP TO BE LARGE ENOUGH TO ACCOMMODATE LARGE HANDS AND FOLD ON TOP OF FOAM FOR STORAGE.



| | |
|-------|---------------------------|
| TITLE | 407 FIELD MAINTENANCE KIT |
|-------|---------------------------|

DWG NO. RBT18561-77

| | |
|-------|---------------------|
| MAT'L | ETHAFOAM 220, BLACK |
|-------|---------------------|

| | |
|--------|--|
| HEAT | DIMENSIONS ARE IN INCHES FRACTIONS $\pm 1/8$ ANGLES $\pm 1^\circ$ SURFACES $\pm .125$ |
| TREAT | |
| FINISH | |

SPEC 1 BREAK ALL SHARP EDGES SURFACES = 125/

| | | |
|-----------|-----|---|
| DRAWN BY: | KPT | 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R |
|-----------|-----|---|

| | | |
|----------|-----|---|
| CHECKED: | KPT | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING |
|----------|-----|---|

| | | |
|------------|-----|------------------------------|
| CHECKED: | KPI | AFTER PLATING |
| OPPS APPR: | | 3. INTERPRET DIM AND TOL PER |

| | | |
|------------|--|------------------|
| OFFS APPR: | | ASME Y14.5M-2009 |
| QA APPR: | | |

| | | |
|----------|--------------------|---------------|
| QA APPR: | <i>[Signature]</i> | USED ON MODEL |
|----------|--------------------|---------------|

APPROVED: WJ BELL 407

| | | | | |
|-------|-----|------|------------|--------------|
| SCALE | NTS | DATE | 06/04/2019 | SHEET 5 OF 7 |
|-------|-----|------|------------|--------------|

| | | |
|-----|------------|--------------|
| NTS | 30/04/2019 | SHEET 5 OF 7 |
|-----|------------|--------------|

TOP SHELF

TOP SHELF

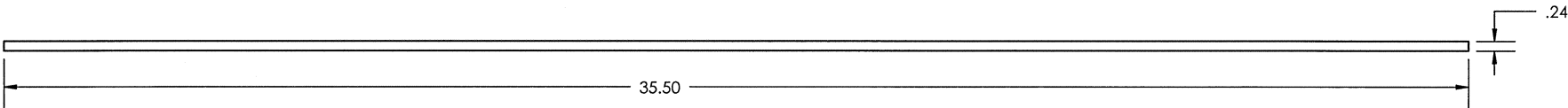
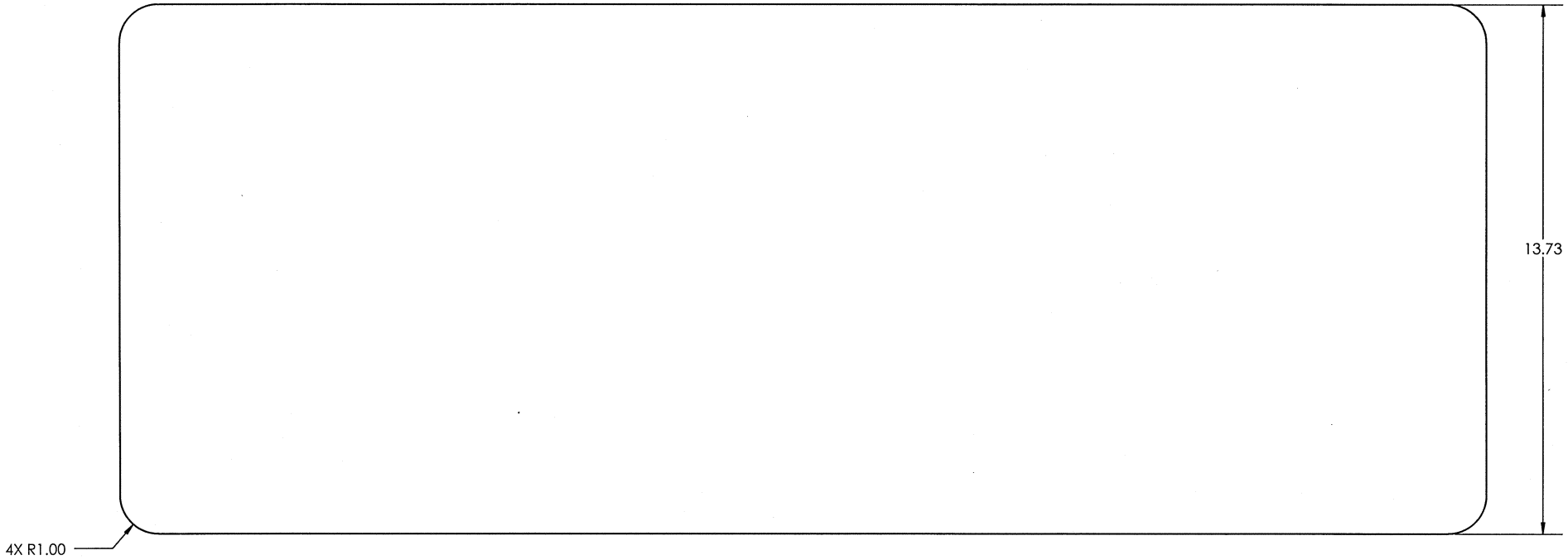
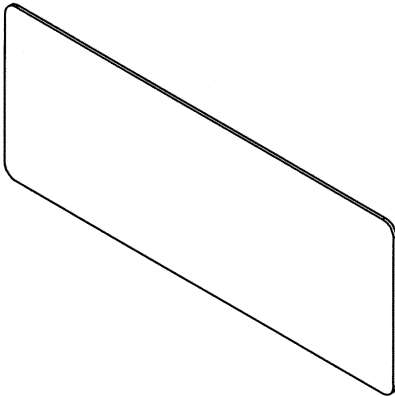
| | |
|--|--------------|
| | USED ON MODE |
|--|--------------|

| | |
|--|----------|
| | BELL 407 |
|--|----------|

| | |
|-----------|---------|
| 6/04/2019 | SHEET 5 |
|-----------|---------|

| | |
|------------|---------|
| 01/04/2019 | SHEET 3 |
|------------|---------|

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace

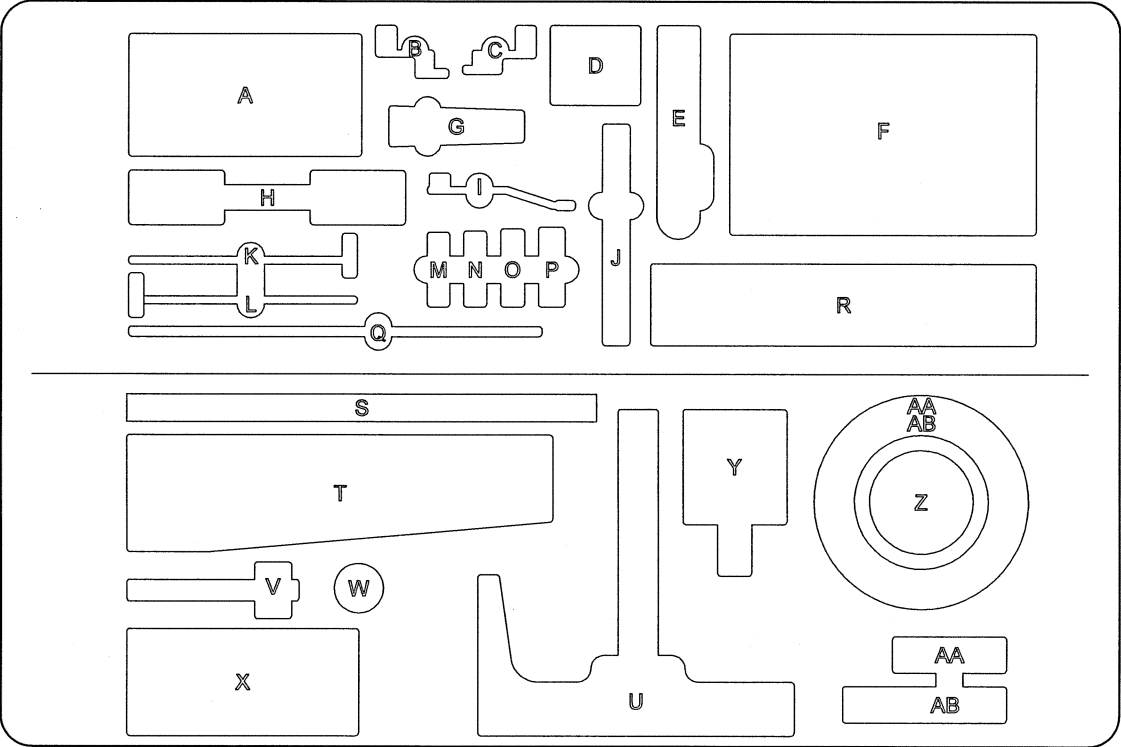


(-79)
STIFFENER

NOTE:
1. VENDOR TO ATTACH A 1in. WIDE BLACK RIBBON LIFTING HANDLE TO EACH END OF COROPLAST, LOOP TO BE LARGE ENOUGH TO ACCOMMODATE LARGE HANDS AND FOLD ON TOP OF FOAM FOR STORAGE.

| | |
|------------------------------------|--|
| | |
| TITLE 407 FIELD MAINTENANCE KIT | |
| DWG NO. RBT18561-79 | REV G |
| MAT'L COROPLAST, BLACK | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |
| HEAT | .XXX ± .010 FRACTIONS ± 1/8 |
| TREAT | .XX ± .03 ANGLES ± 1° |
| FINISH | .X ± .1 SURFACES = 125 |
| SPEC | 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R |
| DRAWN BY: KPT | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING |
| CHECKED: KPT | 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 |
| OPPS APPR: | USED ON MODEL |
| APPROVED: | BELL 407 |
| SCALE NTS | DATE 06/04/2019 SHEET 6 OF 7 |

| RBT18561 407 FIELD MAINT. TOOL KIT | | | | | | | |
|------------------------------------|-----|--------------------|-----------------------------|--------------|-----|--------------|----------------------------|
| TOP SHELF | | | | BOTTOM SHELF | | | |
| LOC | QTY | TOOL No. | DESCRIPTION | LOC | QTY | TOOL No. | DESCRIPTION |
| A | 1 | RB23007615 | POWER TURBINE CLEANING KIT | S | 1 | RBT18538 | SEAT FRAME SUPPORTS |
| B | 1 | RB23006782 | LOWER TURBINE ATTACH NUT | T | 1 | RBT400214 | TRIM TAB BENDING GAUGE |
| C | 1 | RB23006783 | UPPER TURBINE ATTACH NUT | U | 1 | RBT400213 | TRIM TAB BENDER |
| D | 1 | RBT18581-7 | CROWFOOT | V | 1 | RBE2-10-1 | FUEL BOOST PUMP PULLER |
| E | 1 | RB23007638 | FUEL NOZZLE REMOVE/INSTALL | W | 1 | RBT400325 | SOCKET TAIL BOOM NUT |
| F | 1 | RBT18581-9 | INSERT TOOL | X | 1 | RBBP1425-101 | INPUT DRIVE SHAFT TOOL KIT |
| F | 2 | RBT18581-11 | NEEDLE NOZZLE GREASE GUN | Y | 1 | RBT18560 | SEAL PULLER, ENGINE/G/B |
| F | 1 | RBT18581-13 | RELAY BASE REMOVAL | Z | 1 | RBT112800 | PTO SEAL INSTALL KIT |
| F | 2 | RBT18581-15 | EXTRACT TOOL-BLUE | AA | 1 | RB H4713 | TRANS & FW DRAIN TOOL |
| F | 2 | RBT18581-17 | EXTRACT TOOL-RED | AB | 1 | RB H4749 | T/R GEARBOX DRAIN TOOL |
| F | 2 | RBT18581-19 | EXTRACT TOOL-GREEN | | | | |
| F | 1 | RBT18581-21 | EXTRACT TOOL-TERMINAL BLOCK | | | | |
| F | 1 | RBT18581-23 | EXTRACT TOOL-TERMINAL BLOCK | | | | |
| F | 1 | RBT18581-25 | RELAY REMOVAL | | | | |
| F | 2 | RBT18581-27 | POSI-DRIVE BITS-MR BEANIE | | | | |
| F | 1 | RBT18581-29 | EXTRACTION TOOL | | | | |
| G | 1 | RBT18581-31 | 10X MAGNA-LITE | | | | |
| H | 1 | RBT18025-13 | LINEAR SCALE | | | | |
| I | 1 | RBT18532 | T/R G/B TORQUE ADAPTER | | | | |
| J | 1 | RBT18581-45 | A/C BELT TENSIONER | | | | |
| K | 1 | RBW109-3101-58-1-1 | HAMMER, STEEL | | | | |
| L | 1 | RBW109-3101-58-2-1 | HAMMER, ALUMINUM | | | | |
| M | 1 | RBT18581-35 | OFFSET 5/16 TORQUE ADAPTER | | | | |
| N | 1 | RBT18581-37 | OFFSET 3/8 TORQUE ADAPTER | | | | |
| O | 1 | RBT18581-39 | OFFSET 1/2 TORQUE ADAPTER | | | | |
| P | 1 | RBT18581-41 | OFFSET 9/16 TORQUE ADAPTER | | | | |
| Q | 1 | RBT18581-49 | TYGON HOSE | | | | |
| R | 1 | RBT18034 | CONTROL ROD PROTECTORS | | | | |



NOTE:
CARD PAPER IS TO BE RED, PRINTED ON FRONT AND BACK AS SHOWN,
AND THEN PLASTIC LAMINATED. THE CARD WILL THEN BE ATTACHED TO
A LANYARD WITH A GROMMET, THE OTHER END OF THE LANYARD WILL
BE ATTACHED TO THE REAR WHEEL HOUSING THROUGH A DRILLED HOLE,
BEING CAREFUL SO THAT THE WHEEL ISN'T DAMAGED AND THE WHEELS
ROTATE FREELY.

| | |
|---|--|
| | |
| TITLE 407 FIELD MAINTENANCE KIT | |
| DWG NO. RBT18561-81 | REV G |
| MAT'L LAMINATED CARD | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | |
| HEAT TREAT FINISH | .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES ± 125 |
| SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 | |
| DRAWN BY: KPT | USED ON MODEL |
| CHECKED: KPT | BELL 407 |
| OPPS APPR: | |
| QA APPR: | |
| APPROVED: | |
| SCALE NTS | DATE 06/04/2019 SHEET 7 OF 7 |